

DYNAMIC PACKET SIZE CONTROL FOR MPEG-4 DATA PARTITION MODE

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ABSTRACT OF THE DISCLOSURE

10 A dynamic AC prediction technique is implemented in a data partition mode which automatically disables AC prediction for encoding the current macroblock in the next packet when packet overflow occurs. Otherwise, when there is no overflow, AC prediction remains enabled to maintain compression efficiency. More particularly, in the preferred
15 embodiment, a determination is first made whether a macroblock causes a packet overflow if it is encoded in the current packet. If so, a new packet is initiated into which the macroblock is encoded without AC prediction as the first macroblock. Otherwise, the macroblock with AC prediction
20 remains in the current packet and a new macroblock is encoded.